PATENT COOPERATION TREMY

From	the					RECEIVED		
NTE	NATIONAL SEAF	CHING AUTHO	DRITY	DO:		1 2 JUL 2004		
To:								
				WIPO PCT				
see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)					
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)				
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below				
International application No. International filing date (PCT/B2004/050054 27.01.2004			day/month/year)	Priority date (day/month/year) 29.01.2003				
	International Patent Classification (IPC) or both national classification and IPC H04L5/20, H04L25/02							
KO	Applicant KONINKLIJKE PHILIPS ELECTRONICS N.V.							
	· · · · · · · · · · · · · · · · · · ·							
1.	This opinion co	ntains indicati	ons relating to the foll	lowing items:				
	☑ Box No. I	Basis of the op	pinion					
	☑ Box No. II	Priority						
	☐ Box No. III		ment of opinion with reg	ard to novelty, inventiv	e step and indi	ustrial applicability		
☐ Box No. IV Lack of unity of invention								
	⊠ Box No. V	Reasoned state applicability; c	ement under Rule 43 <i>bis</i> itations and explanation	s.1(a)(i) with regard to s supporting such stat	novelty, invent ement	ive step or industrial		
	☐ Box No. VI	Certain docum	ents cited	· · · · · · · · · · · · · · · · · · ·				
	☐ Box No. VII		s in the international app					
	☐ Box No. VIII	Certain observ	ations on the internation	nal application				
2.	FURTHER ACTI	ON						
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.							
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
	For further options, see Form PCT/ISA/220.							
3.	3. For further details, see notes to Form PCT/ISA/220.							
Nam	e and mailing addres	ss of the ISA:		Authorized Officer		series Peterran		



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/050054

	Bo	x N	o. I Basis of the opinion
1.	Wit	h re lan	egard to the language, this opinion has been established on the basis of the international application in guage in which it was field, unless otherwise indicated under this item.
		lar	nis opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).
2.	Wit	h re	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:
	a. t	ype	of material:
	!	<u></u>	a sequence listing
	1	\Box	table(s) related to the sequence listing
	b. fe	orm	nat of material:
	ł		in written format
	· I		in computer readable form
	c. ti	me	of filling/furnishing:
	ſ		contained in the international application as filed.
	ſ	⊐	filed together with the international application in computer readable form.
	(furnished subsequently to this Authority for the purposes of search.
3.		ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional spies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
4.	Ado	litio	onal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

	Box No. II	Priority						
1.	☑ The following document has not been furnished:							
	□ copy of the earlier application whose priority has been clair					d (Rule 43 <i>bis.</i> 1 a	nd 66.7(a)).	
	<u>.</u>	translation of the earlier application whose priority has been claimed (Rule 43 bis.1 and 66.7(b)).						
	Consequently it has not been possible to consider the validity of the priority claim. This opinion nevertheless been established on the assumption that the relevant date is the claimed priority						opinion has priority date.	
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.							
3.	Additional o	observations, if neces	ssary:					
	Box No. V	Reasoned staten applicability; citatio	nent und	ler Rule 43 explanatio	bis.1(a)(i) with regards supporting such s	d to novelty, investatement	entive step or	
1.	Statement							
	Novelty (N)		Yes: No:	Claims Claims	3-5, 10-12, 15-16 1, 2, 6-9, 13, 14, 1	7	٠.	
	Inventive st	tep (IS)	Yes: No:	Claims Claims	1-17		·	
	Industrial a	pplicability (IA)	Yes: No:	Claims Claims	1-17			
		•			:			

see separate sheet

PCT/IB2004/050054

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following document is referred to in this communication:

- D1: EP 1 207 649 A (TEXAS INSTRUMENTS LTD; TEXAS INSTRUMENTS INC (US)) 22 May 2002 (2002-05-22)
- V.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document **D1** discloses (the references in parentheses applying to this document):

A data communication system, comprising:

- at least three signal conductors (paragraph 11);
- a first and a second power supply terminal (paragraph 42, current sources 28 and 29), for supplying currents of mutually opposite direction to the signal conductors respectively (paragraph 13 and column 8, lines 19-22);
- a driver circuit coupled between the power supply terminals and the signal conductors (paragraph 42 and fig. 6, numerals 30-38), the driver circuit being arranged to establish a combination of currents through respective ones of the signal conductors (paragraph 13), the driver circuit selecting successive combinations, depending on information to be transmitted, from a selectable set of combinations (paragraph 11), at least three different of current levels to any signal conductor being used in the set (paragraph 13: current in first sense, current in second, i.e. opposite, sense and zero current), including a current level of current to the signal conductors from the first power supply and a current level of current from the signal conductors to the second power supply (column 8, lines 19-22: the currents in the two senses are from the current sources 28 and 29), a sum of the currents through the signal conductors substantially having a same value for each combination in the set (paragraph 13: the sum of currents is zero) and at least one of the conductors not merely functioning in a differential pair relation with another one of the conductors (paragraph 13: the conductor with a zero current is not functioning in a differential pair relation with another one of the conductors).

The subject-matter of claim 1 is therefore not new.

- V.2 The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claim 13, which therefore is also considered not new.
- V.3 Dependent claims 2-12 and 14-17 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, for the following reasons:
 - The subject-matter of claims 2, 6-9, 14 and 17 is disclosed in D1, see paragraphs 11, 13, 36, 42-44 and 46 (N.B.: the driver disclosed in D1 comprises an internal switchable current path, i.e. fig. 6, numerals 30-38, which is activated depending on the combination being established and the sum of the currents from the power supplies remains the same upon switching between different combinations.) Therefore the subject-matter of these claims is not new.
 - The subject-matter of claims 3-5, 10-12 and 15-16 defines slight constructional changes in the systems and methods of the claims to which they refer, which come within the scope of the customary practice followed by persons skilled in the art, especially as the advantages thus achieved can readily be foreseen. Consequently, the subject-matter of these claims lacks an inventive step.